

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H01L21/00 H01L21/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 401 131 A (LAWSON ROBERT M) 30 August 1983 (1983-08-30) column 2 - column 3; figures 2,3 abstract	1, 18, 22, 32
A	US 2002/162570 A1 (CAVAZZA GILBERT) 7 November 2002 (2002-11-07) paragraph '0022! - paragraph '0036!; figures 1-3	1, 18, 22, 32
A	DE 196 29 705 A (SCHEERER JOACHIM DR ; GRUETZEDIEK HARTMUT DR (DE)) 29 January 1998 (1998-01-29) abstract column 5 - column 7; figures 1,2	1, 18, 22, 32
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

17 September 2004

Date of mailing of the international search report

29/09/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Paisdor, B

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/051159

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 979 475 A (OKA HITOSHI ET AL) 9 November 1999 (1999-11-09) cited in the application abstract; figures 1A,1B,3A,3B,5A,5B,8A,8B,18,20,21 column 10 - column 12 -----	1,18,22, 32

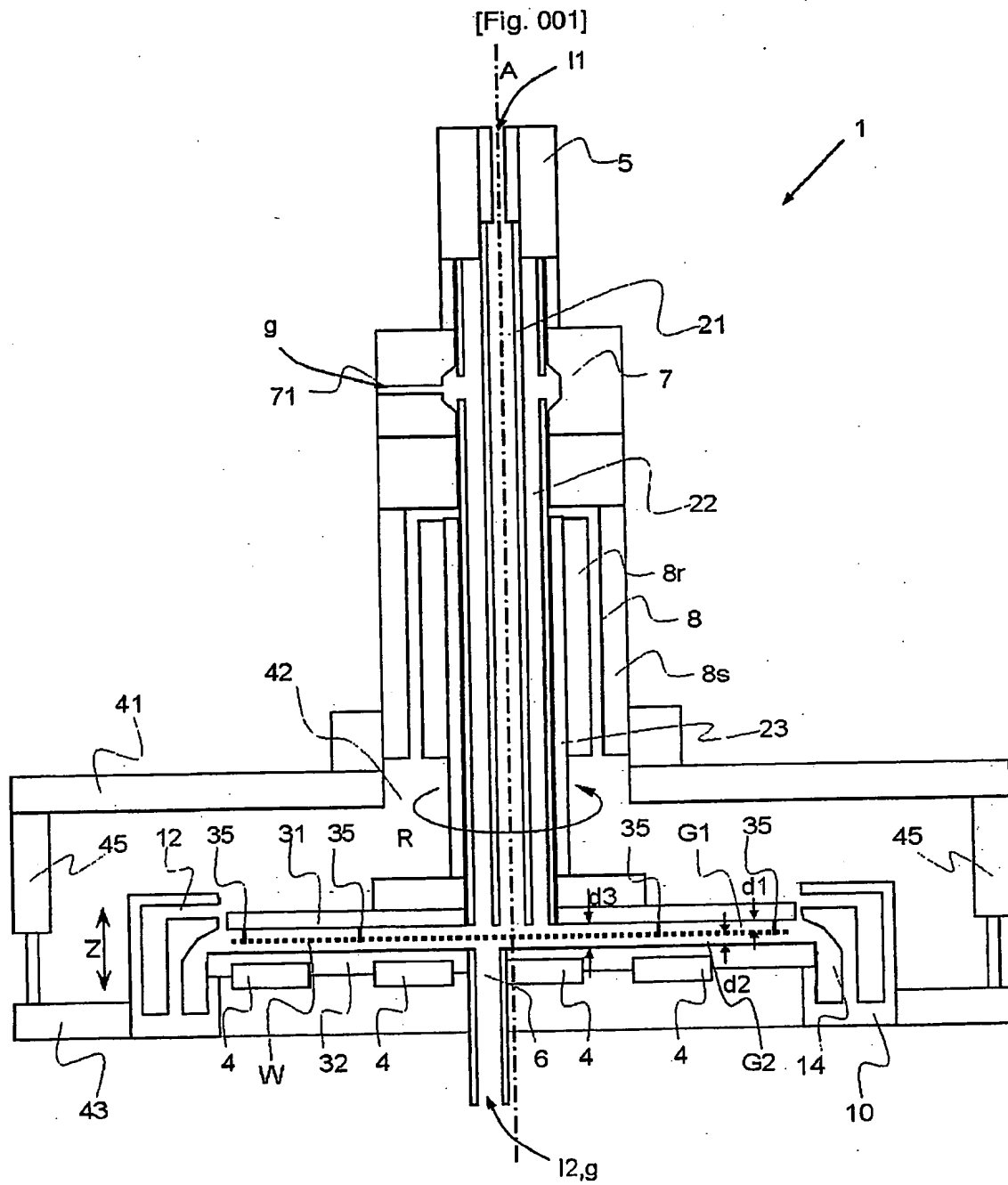
## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/051159

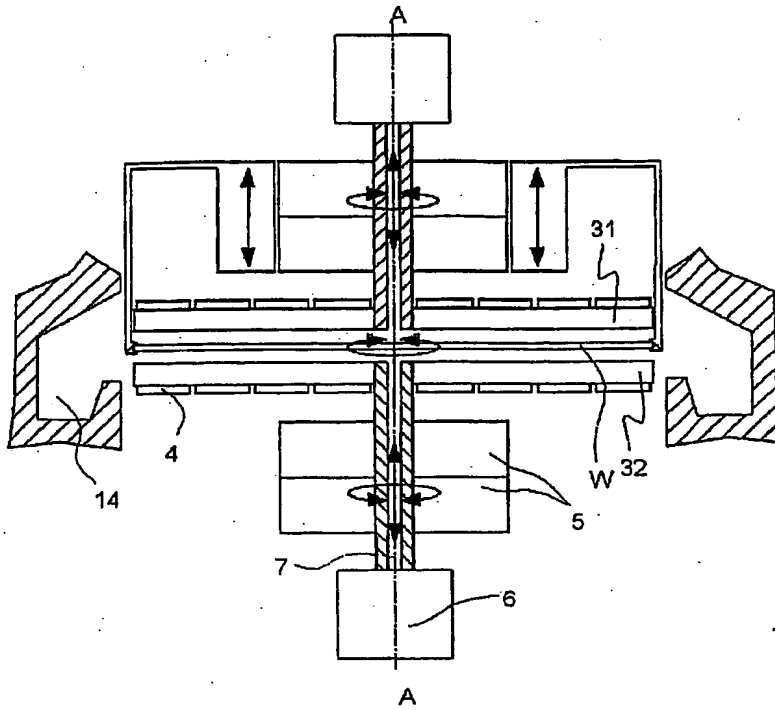
Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4401131	A	30-08-1983	DE 3217891 A1	02-12-1982
			FR 2505673 A1	19-11-1982
			GB 2099951 A ,B	15-12-1982
			JP 3022691 B	27-03-1991
			JP 58025237 A	15-02-1983
			NL 8201938 A	01-12-1982
US 2002162570	A1	07-11-2002	FR 2808120 A1	26-10-2001
			EP 1152457 A1	07-11-2001
			WO 0182340 A1	01-11-2001
			JP 2003532287 T	28-10-2003
DE 19629705	A	29-01-1998	DE 19629705 A1	29-01-1998
			US 6021785 A	08-02-2000
US 5979475	A	09-11-1999	JP 8264626 A	11-10-1996



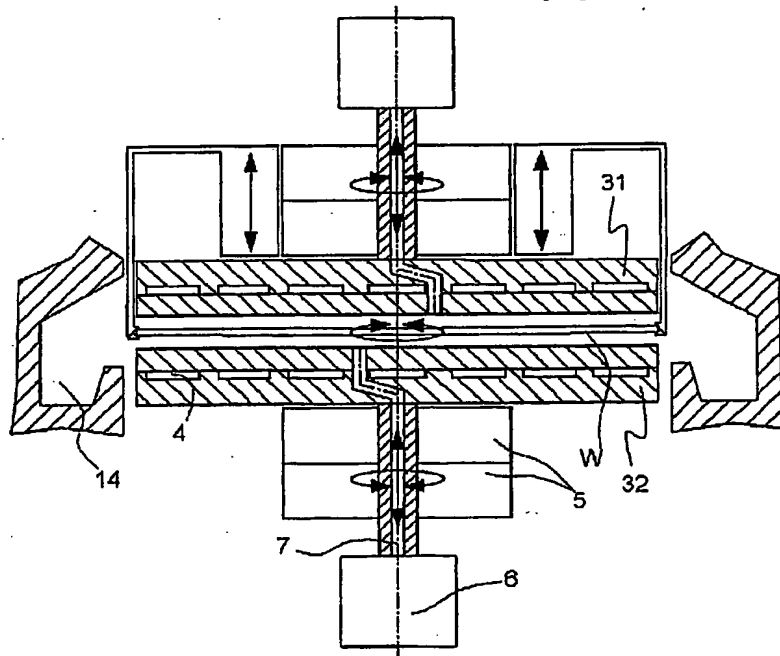


3/5

[Fig. 003]

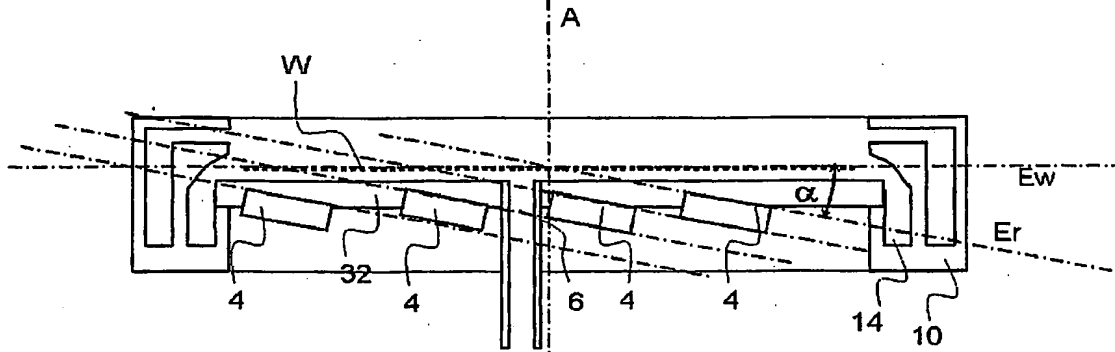


[Fig. 004]

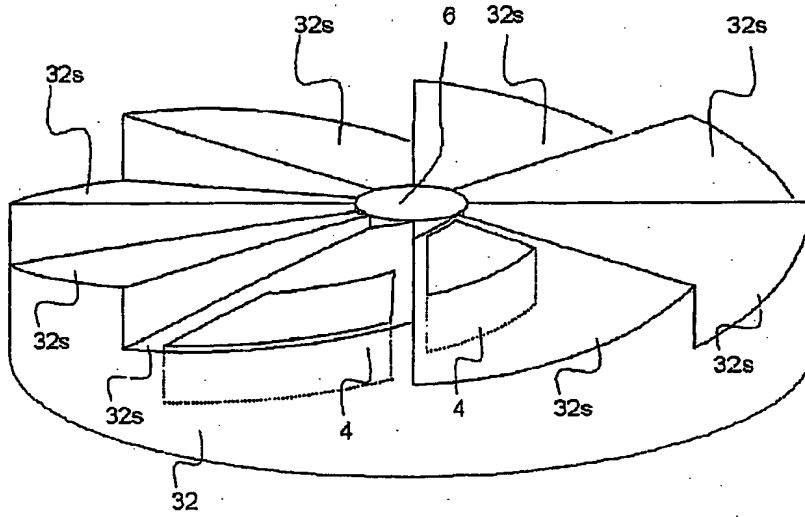


4/5

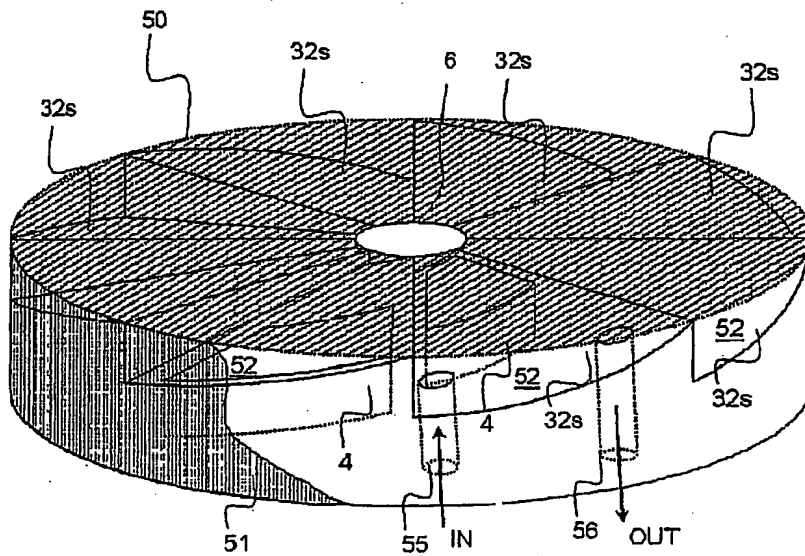
[Fig. 005]



[Fig. 006]

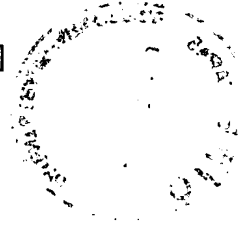


[Fig. 007]

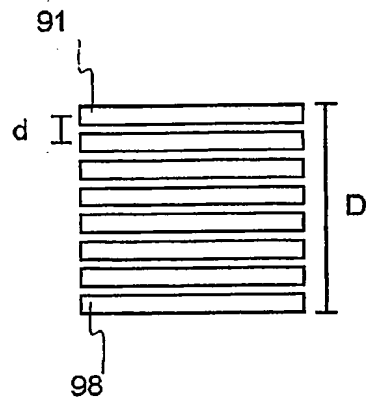
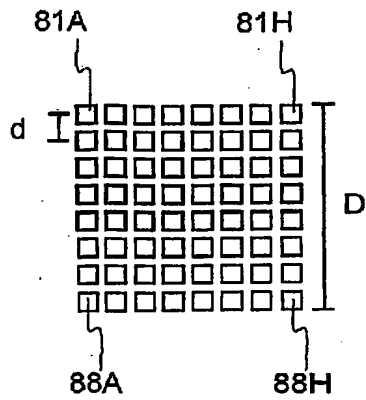


5/5

[Fig. 008]



[Fig. 009]



[Fig. 010]

